

THE FIELD OF ELECTRICITY

Prospective Changes of Power on Suburban Service on Railroads.

ELECTRICAL POWER TO DISPLACE STEAM

Novel Experiments in Purifying Water by Means of Electricity—An Italian Scientific Fairy Tale.

Electricity is soon to be the motive power of suburban trains on the Illinois Central road in Chicago. The change from steam was determined upon some time ago, but the method of applying the power, whether by trolley or surface, was not fully determined until a few days ago. The third rail system is to be used. From the start there was felt to be only one objection to the plan and that was the possibility of accident to people coming in contact with the charged rail, but careful investigation practically satisfied those who have been gathering data on the subject that no serious results are to be apprehended from this source.

This is based upon the experience of the New York, New Haven & Hartford railroad which has about three and a half miles of the third-rail system in operation in its branch running from Boston to Nantasket Beach.

In the case of the Illinois Central, the only points needing special protection are at the Randolph street station and the stations at Twenty-second and Thirty-ninth streets.

"It is, of course, much cheaper than steam," said a representative of the company, "for the road would not have had to use it. How much cheaper I do not care to say, but it is a considerable saving. It is inclined to think that a greatly increased service is contemplated, but just to what extent I cannot say. There are many other factors, but they will not carry as many cars as at present. Three cars will, I think, be the maximum number, and many trains will be made up of one car. It is not contemplated an extra motor car is contemplated, the purpose being to have the motor in the end of a regular car.

ANOTHER ROAD IN LINE.

The Pennsylvania Railroad company has long had under careful consideration the question of substituting a more economical and efficient power for steam in connection with its heavy freight service. There has so far been but one power which appears able to even compete on these points with steam, and that is electricity. The company, therefore, has been endeavoring to ascertain the particular system best suited to its needs, and has at last come to the conclusion that some form of trolley will be the best.

Suburban travel necessitates such frequent stoppages that the use of steam entails considerable loss, as every time a train runs by steam it stops for a few minutes. The use of power in starting it again. This is not so with electricity, as each car or train only takes so much of the current from the feed wire as it can put to use in propelling itself. This is one feature which commends it favorably to the railroad company. Again, the absence of smoke and dirt renders electric trains far more pleasant and comfortable than steam cars, particularly on suburban roads, where the constant opening and shutting of the doors invariably fill the cars with dust and cinders.

The company has not quite decided upon the trolley system it will employ, but a standing order is said to have been placed with the Westinghouse company to produce a motor which will give the results required. In the meanwhile the company has been busy at its own shop, and no suggestion will be refused that proves satisfactory.

One of the officials of the company said: "We are working on the trolley for the first time that is needed to be the proper direction. Still, we are not committed to it, and if anyone comes along with a system that will cost our ideal, we will accept it. We are trying to find a system that will enable the company to give continuous service to suburban points, especially to points that compete with the trolley line."

ELECTRICITY AS A WATER PURIFIER.

An interesting experiment has just been made in Philadelphia with an apparatus for purifying and purifying water. A trough was constructed through which the water to be purified ran. In this trough were suspended plates of aluminum, parallel with the sides of the trough, and of them, one set of plates at each end and one in the center. These plates were thirty-six inches long, and one inch apart. They were arranged in the plates of an electric battery, alternately positive and negative. The positive wire of a dynamo ran on one side of the trough, and the negative on the other, and the three sets of plates were connected between them, in what is known as a "multiple" connection. In other words, the tank, or trough, resembled an electrolytic tank. The dynamo current was of low voltage and passed a current of about twenty amperes through the water. The water was introduced at one end of the tank and flowed between the plates and out of the other end. As the water passed out, a blast of combined air and ozone was forced through it.

The theory of this method is that the electric current in passing through the plates, which are positive and negative, through the water, decomposes a portion of the water, the gases combining with the aluminum to form the hydrate of aluminum. This is the same result as is produced by an alum filter, and it has recently been demonstrated that this freely precipitated hydrate of aluminum is better than any other substance for purifying water. The amount of impurity in the water. This gelatinous hydrate of alumina, as it falls to the bottom, carries down the suspended impurities to the bottom of the tank, and the ascending gas of the decomposed water carries up the lighter impurities to the surface. The floating scum is caught by a scraper, after each set of plates, which leads it to the top of the tank; the precipitated deposit is removed by dumping it from the hinged bottom. As the water flows from the second set of plates it becomes clearer, and at the third set it has become comparatively clear. The water used was like the Schuylkill in its food stage.

MAKING THE OZONE.

The electrical apparatus consisted of a gen-

Awarded Highest Honors—World's Fair.

DR.

CREAM

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ANOTHER LITTLE STORY.

Saturday Night at Half After Seven O'clock We Will Hold

ANOTHER MARVELOUS SALE

Those Who Helped to Swell the Good-Natured Jam Last Saturday Night Will Come Again.

We will sell thousands of yards of colored satin ribbons in numbers 7, 9, and 12 at one price, 24 cents per yard. We will also sell 438 boxes of French imported soap, Eastman Bros., celebrated soap and many other well known brands; each box contains 3 cakes. One box only will be sold to each customer. None sold till seven and a half o'clock. One round price, 15 cents per box.

A linen cutter, \$4 cloths, measuring 8-10, all linen bleached damask, which will be sold at 98 cents each.

We would simply remark that we have never sold ribbons so low, which may be understood to mean that you have never seen anywhere ribbons of equal quality so cheap.

The manufacturers of most of the soap offered failed in business. No loss to sell at these absurd prices. A gain to you which you will not be slow to appreciate.

What about the cloths, you ask? Well, they are an odd lot of William Liddell & Co.'s goods. We have no nape to match. Cost much more to make in the land of the shamrock. You have heard of the tariff bill. Examine these cloths and wait for the new tariff. An object lesson, only through a sale.

Let us advise being on hand promptly at 7:30.

No part of these lots sold before at any price.

The goods will be sold in different lots to avoid if possible a repetition of last week's terrible crush.

THOMAS KILPATRICK & CO.

ORCHARD & WILHELM.

Mattings for Everybody at Most Any Price.

Nearly a cargo of new mattings to be sold at prices as low as the goods are wholesale.

Heavy China mattings, jointless, 25c and 30c quality, 15c.

Japanese Pagoda matting, plain and figured, 15c and 20c quality, 25c.

Cocoa door mats, 25c.

Japanese matting rugs, 3x6 feet, only \$1.00.

7-8x10 matting, 12x16, only \$7.00.

ORCHARD & WILHELM CARPET CO.

A FAMOUS LOTTERY.

The Old Louisiana, Transferred to Honduras, About to Close.

The Louisiana lottery, which has been in existence in Honduras since the summer of 1892, is about to go out of business.

The scheme of conducting a lottery in that country, relates the Louisville Times, has been set up on the other side of the hill.

Reports of one of its officers are to be believed, the losses have been so great as to warrant the instant dissolution of the corporation.

It seems that the Honduras lottery has been exorbitant in its taxes, while at the same time its citizens have insisted that more prizes be distributed.

The affairs of the institution when it had its home in New Orleans.

Thus, between fighting the government in various ways, and the losses it had to bear at the end of each year find itself lower, there is no wonder that its proprietors conceived the brilliant scheme of quitting the field.

It is said there are agents of the company now in the state of Nevada canvassing the sentiments of the commonwealth, with the view of establishing a lottery there under the auspices of the government to the people at the next general election.

Dan Stuart, it is whispered about, is one of the agents of the company, and, as the story further goes, has written to the proprietors, who are now at New Orleans, to discontinue the lottery.

It is difficult in accomplishing the desired purpose—that is, a constitutional provision permitting a lottery, to have a twenty-five years' record, at some point in that jack rabbit service.

This same lottery has been the means of making millions for its owners.

Some of the names are well known in the south and in New York since the gambling shop was located near the St. Charles hotel.

It is said that the lottery was established in Louisiana during the sitting of the constitutional convention, soon after the surrender of the state to the Union.

It is difficult in having a charter for the lottery injected into the constitution, and thus it became one of the most difficult of laws.

Its license was limited to twenty-five years and the cost of obtaining it did not exceed \$200,000.

It was the cheapest concession that was ever made by the state.

Harrison Parker, now tax collector of New Orleans, said some months ago that the net revenue derived from the lottery during the last year exceeded \$1,500,000.

Every quarter, thus making the grand total profits more than \$1,500,000.

This immense sum was divided among the shareholders.

Among the names of the shareholders are Morris, A. A. Baldwin, Charles Howard, Andrew Her, Antonio Herwig, ex-Governor of Louisiana, and others.

During the last days of the lottery, most of the stock was owned or controlled by these men or their heirs.

They started in with a few dollars, and their venture made them fabulously rich.

As a money-making scheme it stands out boldly as the most successful of all corporations in the history of modern times.

Wants Her Husband Located.

One of the most interesting letters from the wife of Scott Bailey, formerly a resident of Richmond, Va., though now missing, to the effect that she thinks her husband is in New Orleans, and that she would like to have him located.

He was last heard from in New Orleans, and she is sure that he had died. This statement his wife disbelieves.

Homekeepers' Excursion.

On Tuesday, April 6, the Missouri Pacific road will sell certain points at a very low rate to certain points in the south and west.

Low rates and southeast. Stop-overs allowed on the going journey. For information, inquire at the Missouri Pacific office, 13th and Farnam.

Address company's office, 13th and Farnam, or depot, 15th and Webster streets, Omaha.

Nebraska, F. GODFREY, P. and T. A.

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Six-Thirty P. M. Train.

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DIED.

WILLETT—Harris T. March 31, 1897, at his residence, 2415 N. 10th street, aged 77 years, 7 months. Funeral Saturday, April 3, 10 o'clock p. m. Interment Forest Lawn cemetery.

WESTON—John T. April 1, 1897, aged 48 years, 20 days. Funeral from residence, 2815 California street, at 3 o'clock p. m. Sunday, April 4, 1897. Member of North Omaha lodge No. 119, A. O. U. W., and Maple camp No. 345, Modern Woodmen of America. Interment, Prospect Hill cemetery.

Creston, Iowa, papers please copy.

JOHNSON—Arthur, of Johnson Bros., contractor, April 1, 1897, at his residence, 13th and Farnam streets, aged 40 years.

The remains will be brought to Omaha for interment. Funeral services Sunday, April 4, at 2 o'clock p. m. at the residence of Harry Johnson, 1135 South 30th street. Interment Forest Lawn cemetery.

BRIN—James L. April 2, aged 33 years. Funeral from residence, 1135 South 30th street, at 2 o'clock Sunday, April 4.

BARGAINS FROM ELY & WALKER STOCK.

The immense stock bought from Ely & Walker after their bankruptcy sale, is now on hand at the lowest prices.

Prices the very lowest in the city. Wash goods, dress goods and fine linens. Unable to store the goods, as their warehouses were destroyed by fire, Ely & Walker are forced to sell all their import and domestic orders then in transit to them at a fraction of their cost.

The low spot—each price we paid—enables us to give our customers the grandest bargains in fine, new seasonable goods that have ever been put on sale.

SPRING CLOTHING PURCHASING. 1,000 dozen men's colored bosom shirts from the Ely & Walker stock of St. Louis; these goods were saved from the fire, are well made, and of a very desirable quality. Purchased by us at about 25c on the dollar; these shirts are worth \$1.00 and \$1.50 each; on sale at 50c.

500 dozen men's fancy laundered shirts, Garner's percales, new patterns, collars attached or detached, 75c each, worth \$1.00 to \$1.50 each.

500 dozen men's handkerchiefs and club house ties, worth 25c to 50c each; choice 15c each.

100 dozen men's unlaundered shirts, our regular 50c quality, go at 25c.

100 dozen men's night shirts, 39c, worth 50c.

50 dozen men's suspenders, regular 50c quality, go at 25c per pair.

A BIG SPECIAL SALE ON MEN'S HATS. Men's fine felt hats; the same others sell at \$1.00; at Hayden's for 65c.

At \$1.00 and \$1.50 we show a regular \$1.50 hat; stylish and becoming.

The Dunlap and Tilden style hats at \$1.50; never sold at less than \$3.00.

All the \$5.00 hats at \$3.00.

SPRING CLOTHING PURCHASING. \$5,000.00 worth of men's shirts and ties, all at less than 50c on the dollar, including stamped linen, tumbler doilies, 1c each; You have heard of the London tariff bill. Examine these shirts and ties and wait for the new tariff. An object lesson, only through a sale.

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MEN'S SHOE STYLES.

A Look at the Newest and Best Styles—Seen at Cartwright's.

The gentlemen will have a great variety of toothing to choose from this spring in the way of shoes. Few dealers will try to carry them all, although Omaha will be supplied by T. P. Cartwright & Co., who certainly have not only every toe style, but color and kind of shoe for men's spring wear in existence.

Es